

MISSOURI DEPARTMENT OF NATURAL RESOURCES



Mr. Rich Linzmaier
Environmental Control Sections
McDonnell Douglas Corporation
P. O. Box 516, Dept. 191C
Building 102, L-3
Hazelwood, MO 63166

EPA-ARWM/PMTS

JUL 1 3 1983

Ref Fan Vil K.C., MO

Dear Mr. Linzmaier:

Enclosed please find a copy of the Resource Conservation and Recovery Act Compliance Inspection Report for your facility. I believe it is self-explanatory.

By August 8, 1983 McDonnell-Douglas Corporation must submit a description of how the present storage area for facility #01248 (generator only) meets the waste confinement criteria set forth in 10 CSR 25-7.050 (2)(A)(6) cross-referenced to 10 CSR 25-7.050(3)(F). It is MDNR's position that a waste confinement system required under 10 CSR 25-7.050 (2)(A)6. that discharges to wastewater treatment units must meet one of the following criteria:

- The area drain in the confinement area must be stopped via valve or plug until it is confirmed that no contaminants are in the discharged liquids; or
- The wastewater treatment unit must be able to adequately treat a slug of discharged material which may be stored in the contaminant area while still meeting the NPDES or pre-treatment standards for the facility; or
- 3. The wastewater treatment unit must operate on a batch tank system in which case a spill in the storage area will be retained and specifically treated prior to further discharge.

Submit this description to Ms. Sandra Carroll of this office and to the St. Louis Regional Office.

If you have any questions or if we can be of assistance to you, please don't hesitate to contact Ms. Carroll or the St. Louis Regional Office.

Sincerely,

David E. Bedan, Ph.D.

Director

Waste Management Program

R00148187

RCRA RECORDS CENTER

cc: St. Louis Regional Office
Joe Jansen

David Doyle, U.S. EPA Region VII

Lyndell Harrington, U.S. EPA Region VII

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Christopher S. Bond Governor Fred A. Lafser Director

Division of Environmental Quality Robert J. Schreiber Jr., P.E. Director

Landifer Bush

RESOURCE CONSERVATION
AND RECOVERY ACT (RCRA)
COMPLIANCE EVALUATION INSPECTION
for

McDonnell Douglas Corporation Brown Road and Lindberg Hazelwood, Missouri 63145 EPA I.D. Number MOD000818963

Inspected 8:00 a.m. to 4:40 p.m. July 6, 1983

Submitted by:

PEDCo Environmental, Inc. 7331 Madison Avenue Kansas City, Missouri 64114

Submitted for:

A. T. Kearney 699 Prince Street Alexandria, Virginia 22313

Submitted to: Jane Ratcliffe, Regional Project Officer Stephen Busch, Task Manager

U.S. Environmental Protection Agency

Region VII 324 East Eleventh Street Kansas City, Missouri 64106

In response to:

EPA Contract 68-01-6515 Work Assignment No. R07-004 PN 3597-17-4H

July 1983

INTRODUCTION

On Wednesday, July 6, 1983, Thomas D. Robertson of PEDCo Environmental, Inc. (an EPA contractor) conducted a RCRA compliance evaluation inspection at the McDonnell Douglas Corporation located in St. Louis, Missouri. Mr. Rich Linzmaier, assistant manager of the Environmental Compliance Section, participated in the plant tour. Mr. Patterson, Mr. T. W. McMahon, and Mr. E. M. Meyers participated in the records review and exit interview. The purpose of this inspection was to clarify and verify information contained in the facility's RCRA permit application.

At 8:00 a.m. PEDCo presented credentials to the receptionist and requested to see Mr. Patterson. Mr. Patterson was unavailable, however. Mr. Linzmaier then verified PEDCo's credentials by calling Dave Doyle at EPA Region VII. After the purpose and scope of the inspection were explained, Mr. Linzmaier conducted a tour of the plant. The administrative records were then reviewed, and an exit interview was held.

The facility requires all photographs to be screened for security purposes. Mr. Linzmaier took pictures as requested by the inspector. Mr. Ron Patterson and Mr. McMahon approved all of the pictures for release. This inspection report reflects the observations of the inspector.

RCRA INSPECTION

Unless otherwise noted, the following compliance-related observations are the only areas of concern:

I. GENERATOR STANDARDS, 40 CFR 262

A. SUBPART A - GENERAL

- 1. The facility has generated and placed into storage approximately 44 drums of solid waste, 3 cylinders of compressed gas, and 4 cardboard boxes of miscellaneous laboratory chemicals. The facility has not determined if the waste is hazardous. Some of the drums are completely rusted through, badly dented, bulging, or leaking. Several drums did not have taps or bungs. The three cylinders are severely corroded and rusted. The cardboard boxes were full of expired reagents mostly in glass jars. Plant personnel indicated that all of these items were collected from various plant locations during house cleaning operations. 40 CFR 262.11
- 2. Of the 10 drums labeled hazardous waste, 7 contain xylene and 3 contain triethanelamine. These drums are stored in the yard near Tanks H-19 and H-20. Reportedly, these are mislabeled as waste. The area is not delineated on the Part A application as a hazardous waste storage area.

II. INTERIM STATUS STANDARDS FOR OWNERS AND OPERATORS OF HAZ-ARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITIES, 40 CFR 265

A. SUBPART B - GENERAL FACILITY STANDARDS

- 1. A detailed chemical analysis has not been performed on those wastes discussed in Section I.A.1. Reportedly, the waste has been in storage for several months. The facility did not keep records identifying the origin of each individual drum, and the drums are not uniquely identified. The waste analysis plan utilized by the facility does not address how the contents of these drums, cylinders, and boxes will be identified. The waste analysis plan assumes some knowledge of the generation process. 40 CFR 265.13
- 2. The facility's inspection log does not identify the types of problems for which inspections were

made nor does it specify what particular components were inspected. The log is the same as Figure F-1 on Page F-5 of the application. The log sheet references an operations manual (Attachment D-1 of the application) that does delineate items to be inspected and it identifies some of the problems to be inspected for. Missing from the operations manual are instructions to inspect all monitoring equipment, safety and emergency equipment, and security devices. 40 CFR 265.15

Reportedly, the facility has a security force of approximately 225 persons. The duties and responsibilities of this force reportedly include inspecting fences, gates, locks, and other security devices; however, records of these activities are not kept by hazardous waste management personnel. "No smoking" warning signs were evident, but "Danger - Unauthorized Personnel Keep Out" signs or suitable alternates were not posted at each active area. 40 CFR 265.14(c)

Reportedly, the facility has approximately 30 trained firemen. The duties and responsibilities of this force reportedly include inspecting fire hydrants, portable fire extinguishers, sprinklers, and other fire-related safety equipment; however, records of these activities are not kept by hazardous waste management personnel.

The facility has installed several underground leak detection and monitoring systems, and the operations manual makes no mention of these components. This equipment must be tested and maintained. 40 CFR 265.33

B. SUBPART D - CONTINGENCY PLANS AND EMERGENCY PROCEDURES

1. None of the emergency coordinators has formal authority to commit the resources necessary to carry out the contingency plan. It would appear that the third alternate may have corporate line authority by virtue of the position (Director of Engineering). 40 CFR 265.55

C. SUBPART I - USE AND MANAGEMENT OF CONTAINERS

1. Many of the containers discussed in Sections I.A.1 and II.A.A are in poor condition. 40 CFR 265.171

- 2. Many of the containers discussed in Sections I.A.1 and II.A.1 are not closed. Several are missing bungs and taps and several have rusted all the way through. 40 CFR 265.173(a)
- 3. The cardboard boxes containing miscellaneous glass jars of expired laboratory chemicals were not adequately packed. The glass jars were strewn about inside the boxes, without the use of any packing material designed to keep the glass from breaking. No broken jars were observed, however. 40 CFR 265.173(b)
- 4. The containment system in Storage Area 2 had been breached. The sump was full on the day of the inspection, and there was evidence (see Photo Number 4) of the runoff reaching the sewer. The inspection log made no mention of the incident. 40 CFR 265.15(a)

D. SUBPART J - TANKS

- 1. Six 750-gallon open-top tanks (referred to as H-1, H-2, H-3, H-4, H-5, and H-6 in the application) have etch marks (high-liquid level indicator) approximately six inches from the top. The tanks were empty on the day of the inspection. The containment system below the tanks has been breached by what appears to have been a rupture of the drainage system piping. (See Photo Number 8.) would also appear that the tanks have been overtapped in the past. Photo Number 7 shows scale and corrosion pitting on the base and adjacent building wall. No reference to the damaged containment system was found in the inspection log. It should be noted, however, that due to time constraints, an extensive review of the logs was not performed. 40 CFR 265.194 and 40 CFR 265.15(c). Management personnel were aware of the situation.
- Tank Number H-20 appears to be leaking. Reportedly, this tank contains spent sodium hydroxide solution (D002) being held for recycle or reuse. Consequently, Tank H-20 is not regulated under RCRA. (See Photo Number 9.) 40 CFR 261.6(a) and 40 CFR 265.1(c)(6). Management was not aware of the leak.
- 3. The Building 14 sludge holding tank has approximately eight cracks that appear to penetrate the entire thickness of the walls. There was no evidence of leakage (see Photo Number 10). It is

not clear to the author, whether the cracks should be considered as a structural deterioration that must be remedied in accordance with 40 CFR 265.15(c). Reportedly the cracks have been in the tanks for several years and no leaks have been observed.

- E. SUBPART Q CHEMICAL, PHYSICAL, AND BIOLOGICAL TREAT-
 - 1. The facility is using an Alfa-Laval Decanter centrifuge to dewater the hazardous sludge being stored in the Building 14 Sludge Holding Tank. Centrifugation is a form of treatment, and this unit is not included in the Part A application. The conditions of operation during the interim status dated July 20, 1982, does not allow for the operation of a treatment process. 40 CFR 265.1(b). The operation of the centrifuge is contracted out to a hauling firm.
 - 2. The inspection logs do not clearly indicate that the discharge and safety equipment are inspected each operating day. 40 CFR 265.403(a)(1)
 - 3. The inspection logs do not clearly indicate that the construction materials or the area immediately surrounding discharge confinement structures are inspected weekly. 40 CFR 265.403(a) 3 and 4.
 - 4. The floor of the building upon which the centrifuge is located was covered with what appeared to be dried sludge from past spills. There was also an open drum with approximately 12 inches of sludge in the operations room. The centrifuge, which was not in operation at the time of the inspection, showed no evidence of leaks.

III. PERMIT-RELATED ISSUES

- 1. The application does not discuss the sludge dewatering centrifuge.
- 2. The application does not discuss the use of cardboard boxes as containers.
- 3. The containment system in Storage Area Number 1 is contiguous and appears to be adequately sized. However, there are signs of spills and solvent deterioration on the asphalt base. (See Photos 2, 3, 5, and 6.)

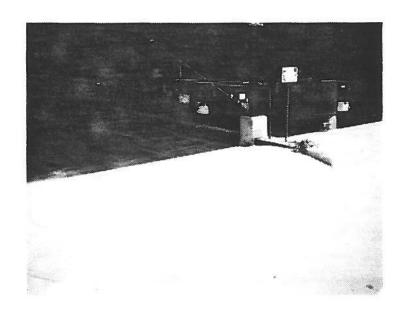
- 4. The containment system in Storage Area Number 2 has been breached. The sump was full of liquid on the day of the inspection, and there was visible evidence that liquids from inside the containment structure have run off the base and entered into the sewer system (see Photo Number 4).
- 5. Warning signs were evident in the container storage area but not in the vicinity of the storage tanks.
- 6. The poly tanks were situated inside the containment structures, which appear to have adequate capacity to hold the upper 2 feet of each tank. However, 40 CFR 264.192 regulations apparently do allow the use of containment systems under tanks. The piping and valving are such that all of the tanks must be full before overtapping can occur. The valves and pumps must be manually operated. Past operating practices have not prevented overtapping of these uncovered tanks. The application indicates that these tanks are fitted with loose-fitting hinged covers; however, these were not evident at the time of the inspection. Reportedly, management has ordered the lids to be replaced.
- 7. The design specifications for the poly tanks were not available.
- 8. The training plan is attached to this report. The facility is currently upgrading the training program.

PHOTOGRAPHS

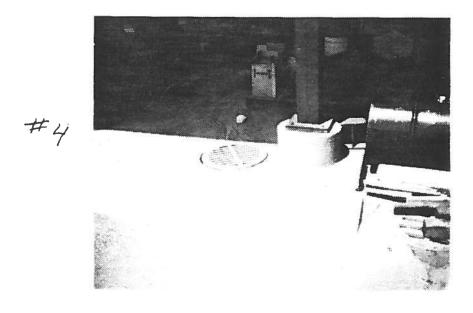
- Container Area Number 1 upside down drum 833 is bulging and leaking - other drums are of unknown content.
- 2. Container Area Number 1 warning sign.
- Container Area Number 1 cardboard boxes, past spill and asphalt deterioration.
- 4. Container Area Number 2- breach of containment system and runoff into sewer cardboard boxes, and gas cylinders.
- 5. Container Area Number 1 cardboard boxes, past spill and asphalt deterioration.
- 6. Container Storage Area Number 1 spill absorbent on floor could not determine source of liquid.
- 7. Six Poly Tanks 750 gallons evidence of past over tapping ground scale.
- 8. Six Poly Tanks 750 gallon evidence of past drain line rupture. Asphalt completely corroded and erroded away.
- 9. Tank H-20 pinhole leak
- 10. Sludge Tank crack

#1

#2

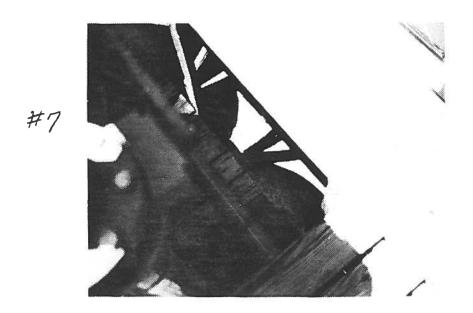


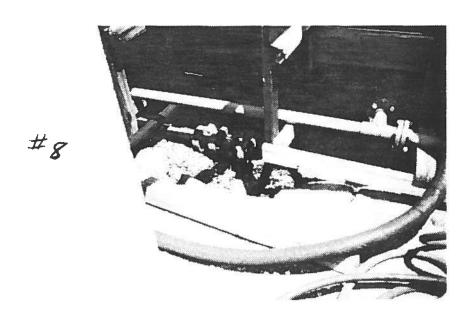
#3



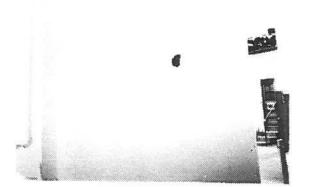
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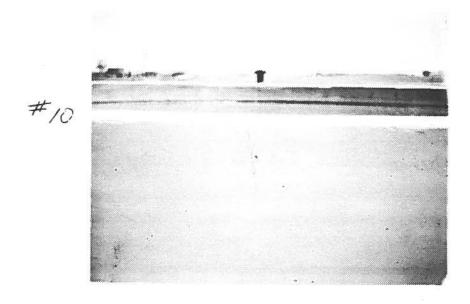
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COURSE I OUTLINE - CITOI

GROUP A: Assistant Foremen, Maintenance Personnel, Material Handling Personnel, Security, Fire Protection Personnel

1. Training Documentation and Record Requirements

A sign-in type training class roster will be used and maintained by the Training Dept. In addition, a post-test (brief, ten questions) will be administered to the trainees at the conclusion of the training session. These post-tests will be forwarded to Dept. 191C for filing in an Annual Hazardous Waste Training file. It is very important that records be maintained that document the required training given to, and completed by, trainees.

2. Audio/Visual Program

"A Matter of Waste"

3. RCRA Regulations/Definitions - Slides/Discussion

- a. A limited overview of the requirements of the Missouri DNR Hazardous Waste Management Law and the Resource Conservation and Recovery Act (RCRA) relevant to Group A. The training requirements should be discussed briefly to ensure that the trainees understand the purpose and acquire the minimum required knowledge relevant to the positions in which they are employed.
- Define Hazardous Waste under RCRA/Missouri DNR, i.e. Ignitable, Corrosive, Reactive, and Toxic.

4. Waste Description - Slides/Discussion/Handout #1

- a. General overview of the types of Hazardous Waste generated at ${\tt MCAIR}$.
- b. More specific identification and dangerous properties of Hazardous Waste generated from specific departments/processes. Note: This will only include the large waste streams. Brief mention should also be made, however, of miscellaneous category sources at MCAIR.

- 5. Safety in Waste Handling Slides/Discussion/Handout #2
 - a. Basic safety concepts of the chemistry of Hazardous Waste:
 - Ignitable flash point;
 - Corrosive pH (acidity, alkalinity);
 - 3) Reactive water reactive, air reactive, etc.;
 - 4) Toxic basic concepts (health hazards).

It is important that the information presented not be unnecessarily complex and inclusive.

- b. Personal Safety selection and use of personal and protective clothing and equipment:
 - Types of protective clothing and uses;
 - 2) Types of protective equipment (respirators, etc.) and uses;
 - 3) Standard safety precautions to be observed.
- Storage Facilities Slides/Discussion/Handout #3
 - a. Locations
 - b. Intended uses
 - c. Capacities and restrictions
- 7. Routine Waste Handling Slides/Discussion/Handout #4
 - Container types
 - b. Handling techniques
 - c. Labels/placards
 - d. Empties
 - e. Leakers
 - f. Notification/accumulation time

- 8. Hazardous Waste Responsibilities Discussion
 - a. Dept. 1910
 - b. Maintenance
 - c. Material Handling
 - d. Safety and Medical
- 9. Emergency Procedures and Contingency Plans Slides/Discussion/Handouts
 - a. Security/Fire Services
 - b. Response notification, etc.
 - c. Equipment containment
 - d. Systems
 - e. Contingency Plan
- 10. Post-Test/Training Roster

Prepared by:

R. H. Kaatman

Environmental Pollution Control

Dept. 1910

/bem

Group B: Maintenance Foremen, Production Foremen (shop areas which generate hazardous waste), Hazardous Materials Office Personnel, Environmental Compliance Dept. Personnel, Occupational Safety and Medical Services (area representatives)

1. Training Documentation and Record Requirements

A sign-in type of training class roster will be used and maintained by the Training Department. In addition, a post-test (twenty questions) will be administered to the trainees at the conclusion of the session to document <u>successful</u> completion of required training. These post-tests will be forwarded to Dept. 191C for filing in an Annual Hazardous Waste Training file. It is very important that records be maintained that document the required training given to, and successfully completed by, trainees.

2. Federal/State Hazardous Waste Regulations

- A. RCRA Requirements Title 40 CFR
- B. Missouri Hazardous Waste Management Law
- C. Generator/Storage Facility Responsibilities
- D. Training Requirements

3. McDonnell Douglas Departmental Functions

- A. Environmental Compliance Dept. 1910
- B. Hazardous Materials Office Dept. 790
- C. Occupational Safety and Medical Services Dept. 064

4. Define Hazardous Waste Under RCRA/DNR

- A. Ignitable Legal definition
- B. Corrosive Legal definition
- C. Reactive Legal definition
- D. EP Toxic Legal definition
- E. Generic Specific wastes

5. Identify Hazardous Waste Generated at MCAIR-St. Louis

- A. General overview of main waste streams
- B. Specific identification of dangerous properties of waste (i.e. health hazards and environmental pollution potential)

6. Hazardous Waste Storage Facilities

- A. Locations
- B. Intended uses
- C. Restrictions

7. Hazardous Waste Disposal

- A. Disposal sites/locations
- B. Cost of disposal
- C. Generator responsibilities/liabilities
- D. Resource conservation/recovery
- E. Industrial waste exchange

8. Manifest Tracking System

- A. Uniform Hazardous Waste Manifest
- B. Generator requirements
 - (1) Information required
- C. Transporter requirements
- D. TSD Facility requirements
- E. Exception reporting

Slide/Tape Presentation

Introduction to hazardous materials, substances, and wastes

10. Safety in Waste Handling

- Personal safety protection of human health
 - (1) Protective clothing and equipment
 - (2) Supervision of personnel responsible for hazardous waste handling
- Environmental protection
 - (1) Routine waste handling (container types, labels, etc.)(2) Empties

 - (3) Leaking

Emergency Procedures and Contingency Plan

- A. Environmental Emergency define
- B. Pollution Upset define
- Emergency Response
 - (1) Containment
 - (2) Notification
 - (3) Clean-up
- D. Alarm Systems
- E. Contingency Plan
 - (1) SMP 190-70-10

Post-Test/Training Roster 12.

13. Class Closing - Questions, Collect Materials

HAZARDOUS WASTE PERSONNEL TRAINING

GROUP B POST-TEST

Date:			
Name:			···
Emplo	ye Nu	ımber:	
Depar	tment	::	
Build	ing (Room/P	Post):
Stati	on:		
Job T	itle/	Duties	:
Immed	iate	Superv	isor:
			True or False (Circle Correct Answer)
	_	_	
1.	T	F	A hazardous waste that does not meet the definition of an EPA waste can never be treated as a hazardous waste.
2.	T	F	A "leaking" hazardous materials or waste container under 110 gallons may never be offered or transported.
3.	T	F	If a "leaker" is over-packed, the outside overpack must be marked with the words "SALVAGE DRUM".
4.	Т	F	If a driver leaves a generator's dock with a "leaker", and this is known to each party, then both are liable for the violation.
5.	Ţ	F	If a generator determines that his waste is hazardous, then he must comply with all of the applicable EPA/DOT regulations.
6.	T	F	"Reportable Quantities" of a hazardous substance in one container must be marked with the notation "RQ", effective 01 Jul 83.
7,	T	F	A hazardous waste manifest, signed by all persons involved, must be returned to the generator within 35 days.
8.	Т	F	If a state assumes primacy for the RCRA regulations, then the state regulations may not exceed the Federal Standards.
9.	T .	F	Each "uniform hazardous waste manifest" requires a true signature of generator, transporter, and TSD facility.
10.	T	F	OSHA requires labeling of hazardous materials that are known or suspected cancer-causing agents.

11. T	F	For specific recommendations concerning personnel safety, refer to "Personal Protective Devices Manual" or Occupational Safety and Medical Services (Dept. 064).
12. T	F	Personnel must be trained to properly handle hazardous waste before they shall be permitted to work with hazardous waste.
13. T	F	Standard Maintenance Procedure 190-70-10 is the MCAIR Contingency Plan.
14. T	F	Environmental Compliance (Dept. 191C) is responsible for investigating and resolving POLLUTION UPSET conditions.
15. T	F	In the case of an ENVIRONMENTAL EMERGENCY, the Fire Services and Security Services will be notified immediately.
16. T	F	It is the McDonnell Douglas philosophy to comply with <u>some</u> regulations for protection of the environment.
17. T	F	Contact the Hazardous Materials Office (Dept. 790) whenever a vendor truck arrives for a pickup, and ask to have the vehicle inspected.
18. T	F	The only area where hazardous waste may be stored longer than ninety (90) days at MCAIR is the permitted Bldg. 27 Scrap Dock Shelter.
19. ₁ T	F	All personnel handling, moving, or transferring hazardous waste shall wear personal protective clothing and equipment.
20. T	F	Place corrosive hazardous waste in unlined steel drums, as this saves the company money.

Course Comments/Questions

All Maintenance and Production Foremen should receive copies of Group A handouts, which have been distributed to their personnel.

MCDONNELL AIRCRAFT COMPANY

Box 516, Saint Louis, Missouri 63166 (314) 232-0232

HAZARDOUS WASTE TRAINING
Course I Group A

HANDOUTS

MCDONNELL DOUGLAS

WASTE DESCRIPTION

Hazardous wastes generated at MCAIR are those generally associated with the fabrication of aluminum, titanium, composite structures, and other materials used in the manufacture of airframes, etc.

Examples of processes involved are: (1) chemical processing tanks; (2) metal cutting, forming, and grinding; (3) degreasing operations; (4) painting operations; (5) aircraft fueling operations.

The following table identifies waste generated from MCAIR's largest waste streams. This table is not all inclusive and should be used only as a general guide. Notify Environmental Compliance (Sta. 23319) concerning pollution upset (spill/leak) conditions. Contact Occupational Safety and Medical Services (Sta. 22123) for specific information concerning personnel safety.

HAZARDOUS WASTE	HAZARD CLASS	CONTAINER TYPE	SAFETY PRECAUTIONS (SPILL OR LEAK)
Waste Acid	Corrosive	55-gal. plastic	Keep combustibles (wood, paper, oil, etc.) away from spilled material. DO NOT TOUCH SPILLED MATERIAL. Stop leak if you can do it without risk. Use water spray to reduce vapors if necessary. Clean up with soda ash.
Solutions	EP Toxic	bung type	
Waste Caustic	Corrosive	55-gal. steel	DO NOT TOUCH SPILLED MATERIAL. Stop leak if you can do so without risk. Clean up with "Speedi-Dry".
Solutions	EP Toxic	bung type	
Waste Oil, Fuel, Solvent	Flammable (may be Corrosive)	55-gal. steel bung type	No flares, smoking, or flames in spill area. DO NOT TOUCH SPILLED MATERIAL. Stop leak if you can do it without risk. Use water spray to reduce vapors. Do not get water inside containers. Clean up with "Speedi-Dry".

SAFETY IN WASTE HANDLING

Personnel working with potentially hazardous waste must do so in the safest manner possible.

RECOGNIZE POTENTIAL HAZARDS.

CONTACT YOUR SUPERVISOR OR OCCUPATIONAL SAFETY AND MEDICAL SERVICES (STA. 22123) FOR SPECIFIC INFORMATION CONCERNING PERSONNEL SAFETY.

Chemical Concepts of Hazardous Waste

- 1. <u>Ignitable</u> The flash point is the temperature at which a substance will ignite (start burning). Waste with a low flash point (0-60°F) includes solvents, jet fuel, and some oils.
- Corrosive pH is the measure of acidity or alkalinity of a waste. A low pH (below 7) would indicate an acid, while a high pH (above 7) would indicate an alkaline. On the pH scale of measurement, 7 is neutral. Nitric acid has a low pH; sodium hydroxide has a high pH.
- 3. Reactive Certain wastes, when exposed to water, air, or other chemicals, may produce violent behavior by evolving toxic gases or generate pressure within their containers. Included are cyanides or sulfides under acid conditions, explosives, and metal chips.
- 4. Toxic Some wastes, including heavy metals, certain gases, poisons, etc., can create health hazards.

Personal Safety - Selection and Use of Protective Clothing and Equipment

ALL PERSONNEL HANDLING, MOVING, OR TRANSFERRING HAZARDOUS WASTE SHALL WEAR PERSONAL PROTECTIVE CLOTHING AND EQUIPMENT.

<u>Corrosive Materials</u> - A two-piece suit or one-piece coverall of a rubberized or vinyl fabric should provide adequate protection for normal use. Other items that might be required include protection for the face (goggles, shield, hood), gloves, and foot protection (boots, overshoes, shoe covers).

Flammable Materials - Clothing for handling flammables varies from fire-resistant clothing made of Nomex to aluminized fire entry suits.

<u>Toxic</u> - After determining the potential for personal contamination and the type of contaminant available, selection of protective clothing can be made. Clothing could range from total incapsulating suits, coveralls, two-piece suits, to aprons. Other items include hoods, gloves, and boots. Fabrics used for this type of clothing are normally impermeable to air and impervious to liquids.

Specific recommendations are not given here due to the varying characteristics of the compounds classified as hazardous waste.

CONTACT YOUR SUPERVISOR FOR SPECIFIC RECOMMENDATIONS AND TO OBTAIN PROTECTIVE CLOTHING AND EQUIPMENT. SELECTION WILL BE BASED UPON HAZARDS THAT THE INDIVIDUAL WILL BE EXPOSED TO. SUPERVISORS ARE TO REFER TO "PERSONAL PROTECTIVE DEVICES MANUAL" OR OCCUPATIONAL SAFETY AND MEDICAL SERVICES.

Standard Safety Precautions

- 1. Avoid inhaling chemical fumes, mists, or vapors. If vapors are evident, proper respiratory protection shall be worn. Inspect and leak test respirator prior to use.
- 2. Be cautious of heat buildup while wearing protective equipment.
- 3. Flush the skin or eyes with water for fifteen (15) minutes to prevent burns if they should come in contact with hazardous waste. Secure first aid.
- 4. Stay upwind of any fire or explosion. Avoid breathing smoke.
- 5. Personnel must be trained to properly handle hazardous waste before they shall be permitted to work with hazardous waste.
- 6. Use common sense. ALWAYS BE CAREFUL.

STORAGE FACILITIES

Hazardous wastes are stored at MCAIR in 55-gallon drums, 5-gallon plastic carboys, underground, inground, and above-ground tanks, and a containerized explosive storage building.

DO NOT SMOKE NEAR ANY HAZARDOUS WASTE STORAGE FACILITY.

- 1. Bldg. 27 Scrap Dock Shelter This is MCAIR's main storage facility and is permitted by State/Federal environmental protection agencies. The facility is used for storage of containers (drums/carboys) that contain a variety of hazardous waste. Environmental Compliance (Dept. 191C) provides an operator for this facility. This operator is responsible for receiving and supervising all of the containerized waste in this area. Do not deliver containers of waste to the shelter without operator approval. Both solids and liquids are stored at this facility with a storage capacity of approximately 280 55-gallon drums. Full drums are never stacked, but are positioned in categorical rows, two drums wide, with an aisle between. Call Sta. 23319, Environmental Compliance, with any questions concerning this facility.
- 2. <u>Bldg. 101 Storage Shelter</u> This is also a <u>container</u> storage facility and is similar to the Bldg. 27 facility. This facility serves Tract II at MCAIR and is only used for temporary (less than 90 days) storage of waste. Do not deliver containers of waste to this shelter without prior approval of Environmental Compliance, Sta. 23319.
- 3. <u>Bldg. 52, Tanks H-19 and H-20</u> These two 10,000-gallon capacity, above-ground tanks provide storage for waste sodium hydroxide (<u>caustic</u>) solution from chemical milling of aluminum.
- 4. <u>Bldg. 52, Tanks H-12, H-13, H-14, H-15, and H-16</u> These five 500-gallon capacity, above-ground tanks provide storage for waste nitric and hydrofluoric acid solution from chemical milling of titanium.
- 5. <u>Bldg. 52, Tanks H-1, H-2, H-3, H-4, H-5, and H-6</u> These six 750-gallon capacity, above-ground storage tanks provide 4,500-gallon storage for waste nitric and hydrofluoric <u>acid</u> solution from chemical milling of titanium.
- 6. <u>Hush House Waste Tank</u> This tank is located on the flight ramp underground behind Hush House #2. The 3,000-gallon capacity, below-ground tank provides storage for waste jet aircraft <u>fuel</u> and hydraulic system spillage. Leaks are monitored by a sensing system installed in a monitoring well adjacent to this tank.
- 7. <u>Fuel Pit No. 3 Waste Tank</u> Located on the flight ramp, this 2,000-gallon capacity, below-ground tank provides storage for jet aircraft <u>fuel</u> that is spilled during fueling or defueling operations. Leaks are monitored by a sensing system installed in a monitoring well adjacent to this tank.

- 8. F-18 Silencer Waste Tank A 2,000-gallon capacity, below-ground tank provides storage for spilled jet aircraft <u>fuel</u> and hydraulic fluid. This tank is also located on the flight ramp. Leaks are monitored by a sensing system installed in a monitoring well adjacent to this tank.
- 9. <u>Bldg. 28 Waste Tank</u> A 5,000-gallon capacity, below-ground tank for leaked or spilled jet aircraft <u>fuel</u>. Leaks are monitored by a sensing system installed in a monitoring well adjacent to this tank.
- 10. <u>Bldg. 6 Waste Oil Tank</u> A 1,000-gallon capacity, below-ground tank provides storage for <u>oil</u> that has been separated from the condensate of an oil-lubricated, steam-operated air compressor. Leaks are monitored by a sensing system that is installed in a monitoring well adjacent to this tank.
- 11. <u>Bldg. 14 Sludge Holding Tank</u> A 120,000-gallon capacity, inground tank provides storage for industrial <u>waste water</u> treatment <u>sludge</u> prior to dewatering. This tank is equipped with an overflow drain which leads to the influent of our waste water pre-treatment plant.
- 12. Bldg. 10, Explosive Waste Storage This building contains explosive waste generated from MCAIR activities. Dept. 790, "Hazardous Materials Office", provides an operator for this facility. This operator makes weekly inspections of the facility and ensures that material is properly handled. Call Sta. 26616 with any questions concerning this facility.

ROUTINE WASTE HANDLING

Container Types

Uses

Bung - Steel (55 gal.)

Bung - Plastic (55 gal.)

Open-Top - Steel, <u>Plastic Insert</u> (55 gal.) Plastic Carboy (5 gal.)

Liquid - Caustic/Oil/Fuel/Solvent

Liquid - Acid

Solid - Acid/Caustic

Liquid - Acid/Caustic (Lab use)

Handling Techniques

Incompatible chemicals and solutions shall never be mixed in the waste containers. In case of questions, consult Environmental Compliance, Dept. 1910, Sta. 23319. Also see MMP No. 37.17.

Never pick up drums with bare forks when handling drums with a forklift; use a drum "grabber".

Pour chemicals slowly and avoid splashing. Avoid inhaling vapors.

Hear appropriate protective clothing and equipment.

Maintenance should contact shop area supervision for any special handling precautions.

The generating department must correctly label and maintain the identity of all containers as to their contents.

Handle hazardous waste only when you are sure of what it is, how to handle it safely, and how to package it properly.

If there are any questions, contact your immediate supervisor.

Labels

- "OK to Fill", MAC Form 4605B affixed to empty container by Environmental Compliance.
 "Hazardous Chemical Waste", MAC Form 4596 filled out with pencil (completely, including date waste accumulation started) by generating department and attached to drums or carboys.
- 3. "Flammable Liquid", MAC Form 4596B primarily used by paint shops as substitute for "Hazardous Chemical Waste" label.
- 4. "Hazardous Waste", MAC Form 4605A affixed to drum/carboy by Environmental Compliance during container inspection. Maintenance then notified to remove container of waste.
- 5. "Empty", MAC Form 4596A filled out with pencil and attached to container by generating department. Container will not be labeled unless it is empty in accord with Federal/State regulations. Any questions, contact Dept. 1910, Sta. 23319.
- 6. "OK to Move", MAC Form 4596C affixed to empty containers by Environmental Compliance. Maintenance then notified by Dept. 1910 for container removal to a specified storage area.
- <u>Empties</u> A container is not officially considered empty until approved by Environmental Compliance. All residue must be removed. Drums are then relocated by Maintenance per Dept. 1910 instructions.
- Leakers Leaking containers are not to be offered for transportation. Maintenance will repair, replace, or overpack leakers. To report leakers, call Environmental Compliance, Sta. 23319, on first shift. At all other times, call the MDC "Operator".

Notification to Environmental Compliance, Dept. 1910, Sta. 23319

- . To report all spills.
- Before filling a mobile tank or MDC over-the-road tank trailer.
- 3. To obtain a drum or mobile tank for hazardous waste.
- 4. With any questions concerning proper handling of hazardous waste.

Notification to Hazardous Materials Office, Dept. 790, Sta. 26616

- 1. Whenever a vendor truck arrives for a pickup, and ask to have the vehicle inspected.
- 2. With questions concerning transportation of hazardous waste/materials.

EMERGENCY PROCEDURES AND CONTINGENCY PLAN

DEFINITIONS:

Environmental Emergency - A situation which poses a direct hazard to human life. health, property, and equipment. Fire and/or explosion are examples of an environmental emergency. Also, a spill or material release which results in the release of flammable liquids, vapors, or toxic liquids or fumes.

Pollution Upset -

Accidental spills/leaks, unavoidable upsets, equipment breakdowns, or any other malfunctions that do not pose a direct threat to human life, health, property, and equipment, but do pose a threat to the environment. Oil spills/leaks or other material loss which may result in environmental pollution.

ENVIRONMENTAL EMERGENCY:

In the event of an ENVIRONMENTAL EMERGENCY, the Fire Services and Security Services will be notified immediately. The person discovering a fire or explosion will turn in an alarm at the nearest fire alarm box or telephone Fire Services at 22611. The initial response to any emergency will be to protect human health and safety, property and equipment, and then the environment.

The Security Services will be responsible for contacting local law enforcement agencies if the situation becomes serious enough to require evacuation of surrounding homes, businesses, or industries. Security will also provide advice and assistance, when requested, to Emergency Action Coordinators concerning the security aspects of building emergency plans.

In case of fire or explosion, authority to order evacuation from the immediate area of concern is delegated to the lowest level, that is, to the person discovering the fire and making the decision that it is unsafe to remain in that location. Use common sense in this regard; follow the attached "General Emergency Evacuation Instructions".

Emergency Phone Numbers

(314) 232-2611 MDC-St. Louis Fire Services

(314) 232-2821 Guard Headquarters

(314) 232-4942 First Aid and Medical (Injuries)

See SMP No. 190-70-10 for detailed emergency and pollution upset information.

POLLUTION UPSET:

In the event of a POLLUTION UPSET, Environmental Compliance (Dept. 191C) is responsible for investigating and resolving the incident and for notifying the proper pollution control agency.

To report an upset condition, telephone according to the following schedule:

- 1. First shift (8:00 a.m. 4:30 p.m.) Monday through Friday, telephone Sta. 23319 (Environmental Compliance).
- Second and third shifts, Monday through Friday, and all shifts Saturday, Sunday, and holidays - telephone "Operator", 232-0232.

Equipment - Containment

The following is a list of oil spill containment and collection equipment that is stored at MDC-St. Louis

- Location Parking Lot #3 (east of Bldg. 27)
 Identification Wooden box labeled "Emergency Oil Absorbing Boom".
- Location Bldg. 9
 Identification Metal box labeled "Emergency Oil Absorbants".
- Location Substation 8
 Identification Metal box labeled "Emergency PCB Spill Cleanup Equipment".
- 4. Location Bldg. 14
 Identification Trailer labeled "Oil Spill Response Trailer". This trailer requires an automobile or truck equipped with a trailer hitch to move to the spill site.

Alarm Systems

Pollution upset alarm systems are located near underground storage facilities and in some industrial and sanitary sewer systems. The alarms are activated in specific building Maintenance areas and the Bldg. 5 Boiler House. Upon receipt of an alarm, Maintenance personnel report the incident in accordance with the Pollution Upset Reporting Schedule.

Contingency Plan

Standard Maintenance Procedure 190-70-10 is the MCAIR Contingency Plan. This plan has been provided to all personnel on the standard distribution list for SMP's. Any personnel responsible for responding to or cleanup of an Environmental Emergency or Pollution Upset should become thoroughly familiar with this document. This plan will be distributed to any personnel for review, upon request to Dept. 191C, Sta. 23319. A copy of this plan (if not available elsewhere) will also be provided by Dept. 191C.

SUBJECT: GENERAL EMERGENCY EVACUATION INSTRUCTIONS

General emergency evacuation instructions to be given to all employees will include:

- Become familiar with emergency exit Tocations.
- 2. Follow emergency instructions as may be issued by supervision and monitors.
- 3. Move rapidly but do not run. Proceed down stairways in an orderly manner when notified to evacuate plant premises. Do not crowd the person ahead. DO NOT use elevator in event of a fire.
- 4. DO NOT scream, laugh or talk or cause unnecessary noise.
- 5. Use the telephones only to report the emergency Not for personal business during the emergency period.
- 6. If time and situations permit, take action to protect the documents you might be working on. Secure documents in your desk or a file cabinet. Turn off machines and equipment per instructions.
- 7. DO NOT remain in restrooms or locker rooms.
- 8. DO NOT return for clothing or personal items.
- 9. DO NOT attempt to return into the building or area if instructed to evacuate until the all clear instructions have been given.
- 10. DO NOT attempt to exit building through the MARDIX Control stations. Exit through emergency exit doors.

U.S. ENVIRONMENTAL PROTECTION AGENCY

RCRA INSPECTION CONFIDENTIALITY NOTICE

Name and Address of Inspector(s) PEDCO ENVIRONMENTAL, INC. CROWN CENTER, SUITE 300 2420 PERSHING ROAD KANSAS CITY, MISSOURI 64108 (816) 474-1376 TELEX (816) 474-7302	Name and Address of Facility MCDONNELL DOV6LAS CORP 57. LOVIS, MO P.O. BOX 5/6 63/66 Owner Operator or Agent in Charge JEROME C PATTERSON Title SECTION MANASER ENVIRON MENTAL COMPLIANCE Address P.O. BOX 5/6
Name of Individual to Whom Notice Given J. C PATTERSON	ST. LOUIS. MO 43/66 Title Date SECTION MANASER 6JUL83

It is possible that EPA will receive public requests for release of the information obtained during inspection of the facility above. Such requests will be handled by EPA in accordance with provisions of the Freedom of Information Act (FOIA), 5 U.S.C. 552; EPA regulations issued thereunder, 40 CFR Part 2; and the Resource Conservation and Recovery Act, Section 3007, EPA is required to make inspection data available in response to FOIA requests, unless the Administrator of the Agency determines that the data contains information entitled to confidential treatment.

Any or all of the information collected by EPA during the inspection may be claimed confidential, if it relates to trade secrets or commercial or financial matters that you consider to be confidential. If you make claims of confidentiality, EPA will disclose the information only to the extent, and by the means of the procedures set forth in the regulations (cited above) governing EPA's treatment of confidential information. Among other things, the regulations require that the EPA notify you in advance of publicly disclosing any information you have claimed and certified confidential.

To claim information confidential, you must certify that each claimed item meets all of the following criteria:

1. Your company has taken measures to protect the confidentiality of the information, and it intends to continue to take such measures.

- 2. The information is not, and has not been, reasonably obtainable without your company's consent by other persons (other than governmental bodies) by use of legitimate means (other than discovery based on a showing of special need in a judicial or quasi-judicial proceeding).
- The information is not publicly available elsewhere.
- 4. Disclosure of the information would cause substantial harm to your company's competitive position.

At the completion of the inspection, you will be given a receipt for all documents, samples, and other materials collected. At that time, you may make claims that some or all of the information is confidential and meets the four criteria listed above.

If you are not authorized by your company to make confidentiality claims, this notice will be sent by certified mail, along with the receipt for documents, samples, and other materials, to the Owner, Operator, or Agent in Charge of your firm, within two days of this date. That person must return a statement, specifying any information which should receive confidential treatment.

The statement from the Owner, Operator, or Agent in Charge should be addressed to:

Mr. John H. Morse Regional Counsel United States Environmental Protection Agency 324 East 11th Street Kansas City, Missouri 64106

and mailed by registered, return-receipt requested mail within seven (7) calendar days of receipt of this Notice.

Failure by your firm to submit a written request that information be treated as confidential, either at the completion of the inspection or by the Owner, Operator, or Agent in charge, within the seven-day period, will be treated by the EPA as a waiver by your company of any claim for confidentiality regarding the inspection data.

To be completed by the facility official receiving this Notice:			
I have received and read this Notice.			
Name Jours C Catterin			
Title SELTION MANASER			
Signature JEROME C PATTERSON			
Date 6 JUL 8 3			
If there is no one on the premises of the facility who is authorized to make business confidentiality claims for the firm, a copy of this Notice and other inspection materials will be sent to the Owner, Operator, or Agent in charge of the company. If there is another company official who should also receive this information, please designate below:			
Name			
Title			
Address			

RCRA INSPECTION REPORT - INTERIM STATUS STANDARDS

I. General Information:

(A)	Facil	ity Name: Mc Donnel	Il Douglas Corporate	con	•
(B)	Stree	t: P.O. Box 516	Brown Road & Links	Leng	
(C)	City:	Hazelwood	(D) State: <u></u>		(E) Zip Code: 63/45
(F)	Phone	3/4-232-3319	(G) County:	St. Louis	
(H)	Operato	or: Mc Donnel air	craft CO		
(I)	Street:	McDonnel Dougla	& Lindberg		
(J)	City:	St Louis PRO	(K) State: _	Mo	(L) Zip Code: 63/4
(M)	Phone:		(N) Cou	unty:	
		SAME			
(Q)	City:		(R) State:		(S) Zip Code:
(T)	Phone:		(U) C	County:	
(V)	Type of	Ownership:	FederalState	Municipal County	Private
(W)	Date of	Inspection: $7-6-83$			OOA (TO) 4:45
		Conditions: Hot			

Z)	Inspection Participants		е	Telephone	
	TOM Robertson	Pea	100 ENC	Vitonmental	8/6-333-84
	Rich Linzmaier				
	Ron Patterson		11	anvisonmental comple	1
35					
	•				
	- II. Des	scription of	Site Acti	vity .	
(A)	Generator (Form 2)	9	(B)	Transporter	(Form 3)
(C)	Chemical, Physical and Biological Treatment	(Form 4)	(D)	X Storage (For	m 5)
E)	Landfill (Form 6)		(F)	Incineration	(Form 7)
G)	Land Treatment (Form 4)			Thermal Trea	
1)	Comments: The facility has	not include	W 0	Centrilina a' s	d. 0 41
	Afflication			·	N PAVES
				10	
	•••				
	Supplemental forms (Listed in	Parathesis) m	nust be co	ompleted for each	n activity
		ental forms t	o this re	eport.	
	inspected. Attach all Supplem				•
	inspected. Attach all Supplem	Yes	No .	Not Inspected	See Remark
	Has this facility Submitted a Part A Permit Application?			Not Inspected	See Remark Number

GENERATORS CHECKLIST

	Sec	<u>tion</u>	A - E	PA I	dentifica	tion No.						
	1.	Doe	s Gene	erato	or have EP	A I.D. No.	.?				Yes	No
		8.	If y	es, E	PA I.D. N	10. <u>M</u> <u>0</u>	0000	081	8963	2		
262.21	Sec	tion	B - 1	<u>lanif</u>	<u>fest</u>							
	1.	Doe	s ge ne	erato	or ship wa	ste off-s	ite?			<u>X</u>	Yes	No
	a .	a.	If no	o, d c	not fill	out Sect	ions B and	i D.				
-	•	b.			identify p ions sh eet		f-site fac	ility(s)	Use marra	itive		
•	2.	Doe	s gen	erato	or use Man	nifest?				\underline{X}	Yes	No
261.5		a.				or a small				_	Yes	No
			1	waste	to a T/S	penerator 5/D facili	ty	.nis wnen	Senaing		Yes	NoNA
•		b.	If	yes,	does mani	ifest incl	ude the fo	llowing	information	?		
			1.	Mani	ifest Docu	ment No.				2	Yes	No
	•		2.	Gene	erators Na	me, Maili	ng Address	, Telepho	one No.	<u>X</u>	Yes	No
			3.	Gene	erator EPA	I.D. No.				<u> </u>	Yes	No
			4.	Tran	nsporter(s) Name and	d EPA I.D.	No.		<u></u>	Yes	No
hon	d The	,	5.	ā. b.	Facility Alternate Instructi	Name, Add Facility	ress and a Name, Add turn to ge	EPA I.D. iress and enerator	No. EPA ID NO. If undelive	X	Yes	No No
	sue!	unter	frem.	د	able?		J			<u>X</u>	Yes	No
-			6.	quar	te informantity, (we per.)	ation requiring the second sec	ired by DO vol.) cont)T - Ship; Lainers (1	oing name, type and	λ	Yes	No
-	-		7.			formation diling inst			.)		X Ye	s No

		manifest form?	Yes No
		This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the EPA.	
		(9) Does Generator retain copies of Manifests?	Yes No No Materials slipping office
	Ify	es, complete a through e.	of the
		a. (1) Did generator sign and date all manifests? (2) Who signed for generator? Name <u>VALICS</u>	Yes No
		b. (1) Did generator obtain handwritten signature and date of acceptance from initial transporter? (2) Who signed and dated for transporter? Name 4/1/2	
		c. Does generator retain one copy of manifest signed by generator and transporter?	
	•	d. Do returned copies of manifest include facility owner/ operator signature and date of acceptance?	X Yes No Yes No
		e. Does generator retain copies for 3 years?	Yes No
	Sec	tion C - Hazardous Waste Determination	
262.12	1.	Does generator generate solid waste(s) listed in Subpart D (List of Hazardous Waste)?	No
7.		a. If yes, list wastes and quantities See Part (include EPA Hazardous Waste No.)	3
	2.	Does generator generate solid waste(s) that exhibit hazardo characteristics? (corrosovity, ignitability, reactivity, EP toxicity)	Yes No
		a. If yes, list wastes and quantities <u>See Part B</u> (include EPA Hazardous Waste No.)	
		b. Does generator determine characteristics by testing or by applying knowledge of processes?	
		 If determined by testing, did generator use test methods in Part 261, Subpart C (or Equivalent)? 	Yes No
		 a. If equivalent test methods used, attach copy of equivalent methods used. 	

	3.	Are there any other solid wastes generated by generators?	Yes No
		a. If yes, did generator test all wastes to determine non-hazardous characteristics?	YesNo
,	•	 If no, list wastes and quantities deemed non-hazardo or processes from which non-hazardous waste was proc (Use additional sheet if necessary.) 	
	_A	Most 44 Disens, some in very poor condition, have not	been analyzed.
	10	decemine the deceme content see P10TO #1 These deceme	· re stored in
		and unlated in the CN stongs over	der are badly comes
	Sec	tion D - Pre-Transport Requirements	
	1.	Does Generator package waste in accordance with 49 CFR 173 178, and 179? (DOT requirements)	No
265.174	2.	b. Use sheet to describe containers and condition.	Yes No
		c. Is there evidence of heat generation from incompatible wastes in the containers?	Yes No
262.32	3.	Does the generator use DOT labeling requirements in accordance with 49 CFR 172?	Yes No
	4.	Does the generator mark each package in accordance with 49 CFR 172?	Yes No
	5.	Is each container of 110 gallons or less marked with the following label?	Yes No
		Label saying: <u>HAZARDOUS WASTE</u> - Federal Law Prohibits Improper Disposal. If found, contact the nearest policy or public safety authority or the U.S. Environmental Pro- tection Agency.	
		Generator's Name and Address	
		Manifest Document Number	
262.33	6.	Does generator have placards to offer to transporters?	Yes No
262.34	7.	Accumulation Time	
	e.	a. Are containers used to temporarily store waste before transport?	Yes No

•	Also, fill out rest of No. 7 (Accum. Time) Yes No
~	 b. 1. Does generator inspect containers for leakage or corrosion? (265.174 - inspections) 2. If yes, with what frequency?
•	c. Does generator locate containers holding ignitable or reactive waste at least 15 meters (50 feet) from the facility's property line? (265.176 - Special Requirements for Ignitable or Reactive wastes)
	NOTE: If tanks used, fill out checklist for tanks.
	d. Are the containers labeled and marked in accordance with Section D 3, 4, & 5 of this form? YesNo
	NOTE: If generator accumulates waste on-site, fill out checklist for General Facilities, Section B - Preparedness and Prevention, Section C - Contingency Plan and Emergency Procedures
	e. Does generator comply with requirements for personnel training? (Attach checklist for 265.16 - Personnel Training)YesNo
	8. Describe storage area. Use photos and narrative explanation sheet.
262.40	Section E - Recordkeeping and Records
	1. Does gnerator keep the following reports for 3 years?
	a. Manifests and signed copies from designated facilities? b. Annual reports c. Exception Reports No. d. Test results
-	2. Where are records kept (at facility or elsewhere)? 3. Who is in charge of keeping the records? Name Rich Ingenia. Title
	Section F - Special Conditions
262.5 0	1. Has generator received from or transported to a foreign source any hazardous waste? a. If yes, has he filed a notice with the Regional Administrator? b. Is this waste manifested and signed by Foreign consignee? c. If generator transported wastes out of the country, has he received confirmation of delivered shipment? YesNo MAD

RCRA COMPLIANCE INSPECTION REPORT FACILITIES CHECKLIST

Sec	CION A - GENERAL FACTURE SCANDOLUS		
1.	Does facility have EPA Identification No.?	X Yes	No
	A. If yes, EPA I.D. No. M 0 D 0 0 0 8 1 8 9 6 3 If no, explain		
2.	Has facility received hazardous waste from a foreign source?	Yes	X _{No}
	A. If yes, has he filed a notice with the Reg. Admin.	Yes	No /
Was	te Analysis		
3.	Does facility maintain a copy of the waste analysis plan at the facility?	X Yes	No
	A. If yes, does it include		
	(1) Parameters for which each waste will be analyzed? Y 4 drum of FM 4NKNOWNS in de	Yes	X No
	•	Yes	X No
	(3) Sampling method used to obtain sample?	Yes	No
	(4) Frequency with which the initial analysis will be reviewed or repeated?	Yes	No .
	(5) (for off-site facilities) Waste analyses that generat have agreed to supply?	tors Yes	No ′
-	(6) (for off-site facilities) Procedures which are used t	to	
	inspect and analyze each movement of hazardous waste including:		

X2		b. Sampling method to be used to obtain repres sample of the waste to be identified?	entative Yes No
265.14	4. Doe	s the facility provide adequate security through	
	Α.	24-hour surveillance system? (e.g. television monitoring or guards)	X Yes No
		<u>OR</u>	
	В.	(1) Artificial or natural barrier around facility (e.g. fence or fence and cliff)? Describe fences surround facility downers, AND	X Yes No
		harries separating NCDONNell Dongla and	The Then ways & Lombert
((2) Means to control entry through entrances (e.g. attendant, television monitors, locked entrance, controlled roadway access)? Describe	Yes No
7	General	Inspection Requirements	
65.15 (b)	5. Doe	s the owner/operator maintain a written schedule at a complete of the schedule at a complete of	the
	9	a. Monitoring equipment?	Yes No
~		b. Safety and emergency equipment?	YesNo
•		c. Security devices?	X Yes No
		d. Operating and structural equipment?	YesNo
		e. Types of problems of equipment?	
		1. malfunction	Yes No
<		2. operator error	YesNo
(/	3. discharges	Yes \(\sqrt{No} \)

*		A.	If yes, does it include:		
			(1) Date and time of inspection?	Yes _	_ No
-			(2) Name of inspector?	Yes	_ No
, *			(3) Notation of observations?	Yes _	_ No ·
- conflored.	-	>	(4) Date and nature of repairs or remedial action?	Yes	No
AND TOWN THE PARTY OF THE PARTY	Kird (or	В.	Are there any malfunctions or other deficiencies not corrected? (Use narrative explanation sheet).		_ No
265.16	Per	sonn	el Training		
	7.	Doe Rec How	ords at the facility? Computing and Lord Gues long are they kept?	<u>X</u> Yes	_ No
" Not		Α.	If yes, do they include:		
			(1) Job title and written job description of each position?	<u> </u>	_ No
			(2) Description of type and amount of training?	X Yes _	No
			(3) Records of training given to facility personnel?	Yes <u>/</u>	No
265.17	Rec	uire	ements for Ignitable, Reactive or Incompatible Waste		
· (8)	8.	Doe	es facility handle ignitable or reactive wastes?	Yes	_ No
- <u>-</u>		Α.	If yes, is waste separated and confined from sources of ignit on or reaction, (open flames, smoking, cutting and welding, hot surfaces, frictional heat) sparks (st electrical or mechanical), spontaneous ignition (e.g. heat producing chemical reactions) and radiant heat? 1. If yes, use narrative explanations sheet to describe separation and confinement procedures. 2. If no, use narrative explanation sheet to describe of ignition or reaction.	atic, from be Yes	_ No

8	0	B. Are smoking and open flame confined to specifically designated locations?	X Yes No
**		C. Are "No Smoking" signs posted in hazardous areas?	Yes No
(b)	9.	Check containers See notes	/
->		A. Are containers leaking or corroding?	Yes No
		B. Is there evidence of heat generation from incompatible wastes? (Use narrative explanations sheet to describe condition	Yes X No of containers.)
265.31	Sec	tion B - Preparedness and Prevention	
	1.	Is there evidence of fire, explosion or contamination of the environment?	$\underline{\hspace{1cm}}$ Yes $\underline{\hspace{1cm}}$ No
1 * 5		If yes, use narrative explanations sheet to explain.	
265.32	2.	Is the facility equipped with	
(A. Internal communication or alarm system?	Yes No
		(1) Is it easily accessible in case of emergency?	Yes No
		B. Telephone or two-way radio to call emergency response personnel?	Yes No
		C. Portable fire extinguishers, fire control equipment spill control equipment and decontamination equipment?	Yes No
265.33		(1) Is this equipment tested to assure its proper operation?	Yes No
		D. Water of adequate volume for hoses, sprinklers or water spray system?	Yes No
		(1) Describe source of water 5, dou'c Count	with to

265.3 5		3.	Is there sufficient aisle space to allow unobstructed movement of personnel and equipment?	Yes	_ No
265.37		4.	Has the owner/operator made arrangements with the local authorities to familiarize them with characteristics of the facility? (layout of facility, properties of hazardous waste handled and associated hazards, places where facility personnel would normally be working, entrances to roads inside facility, possible evacuation routes.)	✓Yes _	No.
265.5 0		5.	In the case that more than one police and fire department might respond, is there a designated primary authority? a. If yes, list primary authority ** ** ** ** ** ** ** ** ** ** ** ** **	Yes	No
265.5 ?	(a)	6.	Does the owner/operator have phone numbers of and agreements with State emergency response teams, emergency response contractors and equipment suppliers? Are they readily available to all personnel?	YesYes	_ No
\$1 24 25	(c)	7.	Has the owner/operator arranged to familiarize local hospitals with the properties of hazardous waste handled and types of injuries that could result from fires, explosions, or releases at the facility?	✓Yes	No
		8.	If State or local authorities decline to enter, is this entered in the operating record?	Yes _	_ No
265.5 2		Sec	tion C - Contingency Plan and Emergency Procedures		
		1.	Is a contingency plan maintained at the facility?	✓Yes _	— No
		<u> </u>	a. If yes, is it a revised SPCC Plan?	Yes	_ No
(2.	Is there an emergency coordinator on site at all times?	Yes _	_ No
-		Sec	ction D - Manifest System, Recordkeeping and Reporting		9
265.71		1.	Does facility receive waste from off-site?	Yes	No
	21-	-	a. If yes, does the owner/operator retain copies of all manifests?	✓Yes _	No

	(1) Are the manifests signed and dated and returned to the generator?	Yes No	
	(2) Is a signed copy given to the transporter?	Yes No	
2.	Does the facility receive any waste from a rail or water (bulk shipment) transporter?	Yes No	
	a. If yes, is it accompanied by a shipping paper?	Yes No	NA
11	(1) Does the owner/operator sign and date the shippi paper and return a copy to the generator?	ng Yes No	NA
	(2) Is a signed copy given to the transporter?	Yes No	NA
3.	Has the owner/operator received any shipments of waste which were inconsistent with the manifest? (manifest discrepancies)	Yes <u> </u>	(*)
	 If yes, has he attempted to reconcile the discrepancy with the generator and transporter? If no, has Regional Administrator been notified? 	Yes No Yes No	NA
4.	Does the owner/operator keep a written operating record at the facility?	<u> ✓</u> Yes No	
	A. If yes, does it include:		_
	(1) Description and quantity of each hazardous waste received? 440cms	Yes No	
700	(2) Location and quantity of each hazardous waste at each location?	YesNo	-
	(3) Records and results of waste analyses?	Yes No	•
	(4) Reports of incidents involving implementing of the contingency plan?	Yes No	•

		(5) Records and results of required inspections?	Yes
		(6) Monitoring, testing or analytical data?	Yes
		(7) Closure cost estimates and for disposal facilities post-closure cost estimates? (Not effective until May 19, 1981.)	∕Yes
5.	Has the	the facility received any waste (that does not come under small generater exclusion) not accompanied by a manifest?	Yes
-	à.	If yes, has he submitted an unmanifested waste report to the Regional Administrator?	e Yes

EPA	ID	NO

RCRA COMPLIANCE INSPECTION REPORT NARRATIVE EXPLANATIONS

SECTION I.A 9	PART	<u> </u>
44 Drums are in 100	or condition, is TOPS susted completely	+ wough, dents
and bulges are prevenin	t. Some are labeled layordone a	wante some are
not labeled at all	See Photo #1	
SECTION	PART	
SECTION	PART	
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RCRA COMPLIANCE INSPECTION REPORT NARRATIVE EXPLANATIONS

SECTION	PART	
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	The state of the s	त्यम् त्रात्मकः सुत्रक्षः त्यम् प्रमा प्रमा प्रमाणसम्बद्धानुकान्त्रकृतिसम् कः कृतिस्थितः सम्बद्धानः कृति	h ay make ya manin yanan kanan winake kilake wanan k	eringgil i bili galaway garanjan risanjahana balawa balawa na			egy togytog per y as arrightent per y sary n. a. n. a. n.	

Ē,		Inspection file No:
dame of Fa	cility: McDonNel Douglas Cosp	
#ddress:	Brown & Lindberg Rds	Reviewer:
	HAZelwood mo	Page Paulaus de la
	tor ID Number: MOD 000818963	Date Reviewed:
	aspection Representative: Rich Lingmain	
Title:	15515 Tan Section manager - environmental compliance	Form "I"
Telephone !	Number: 3/4-232-33/9	
Ne questio	ns contained in this checklist apply to owners and operators	es of all hazardous waste
	that store containers of hazardous waste, except as Section	265.1 provides etherwise.
Prt. Regs. O C.F.R.	720	
,5 .171	l. Are all containers in good condition, i.e., not showing of leakage or corrosion or any other deterioration/des	ng signs formation? Yes (10)
5.171	2. Are containers lined or made of materials compatible we hazardous wastes placed into them so that the contained not react or corrode with the hazardous wastes?	with or will underernmed Yes No
).173(a)	3. Are all containers holding hazardous waste kept closed storage?	d during Yes 🔞
3.174	4. Are areas where hazardous waste containers are stored by the owner/operator at least once a week?	inspected Yes No
1.15(d) 1.15(b)	5. Is an inspection log maintained? (See question #5 of checklist.)	TSD Yes No
5.176	6. Are containers holding ignitable or reactive waste loc at least 50 ft. from the facility's property line?	Cated Yes ::c
5.!77(a)	7. Are incompatible wastes placed in the same container? Appendix 5 for examples.)	(Sec Yes <u>(So</u>
5.177(c)	8. Are storage containers holding hazardous wastes which incompatible with nearby materials stored in container piles, or surface impoundments separated by dikes, berm or other devices?	re tambe

i	1.	Are	there any tanks which are not being used which the facility onger plans to use?	yes_ <u>/</u> no
•		a.	If yes, has all hazardous waste and hazardous waste residue been removed from these tanks, discharge control equipment, and discharge confinement structures?	yesno NA
2 65 . 192	2.	Are	tanks presently used to treat or store waste?	
		a. b.	If no, do not complete rest of form. If yes, check tanks.	
		· .	Is there evidence that incompatible wastes have been placed tank? Is there evidence of any ruptures leaks or corrosion? (Use narrative explanations sheet) See MoTes Par 3	in the
:	3.	Are	there any uncovered tanks?	
		a. b.	If no, do not complete B-E If yes, do they have 2 feet (60cm) freeboard?	ves_Xno
-			or	
•		c.	A containment structure? (e.g. dike or trench)	yes_/no
		•	or	
		đ.	A drainage control system?	
			or	
••		е.	A diversion structure? (e.g. standby tank) (NOTE: The structure in c,d or e must have a capacity that equals or exceeds the volume of the top 2 feet (60cm) of the tank.	yes_ <u>\</u> no
	4.	-Ar	e any of the tanks continuous feed?	
		ā.	If yes, is it equipped with a means to stop inflow (e.g. waste feed cutoff or by-pass to a stand-by tank)?	yes_Xnc

265.193 Waste Analysis

	5,	Is t	the tank used to store one waste exclusively?	yes	no
		a.	If no, what are the different wastes stored in the tank? (Use narrative explanations sheet)	5.00	
	,	b.	Are waste analyses and trial treatment or storage tests done on these different wastes?	yes_	_no /v/A
	•		(1) If no, does he have written, documented information on similar storage or treatment of similar wastes?	yes	_no NA
		c.	Are there records available of these waste analyses in the operating record?	X_yes	_no
65.19 4	Ins	pecti	ons:		
	6.	Does	the owner/operator inspect the following at least daily?		_no
		a.	Discharge control equipment (e.g. waste feed cut-off, by pass and/or drainage systems)?	yes	_no
		b.	Monitoring equipment (e.g. pressure and temperature gages)?	χ yes_	no
		с.	Level of waste in each uncovered tank?	X ves_	nc
	7.	Does	the owner/operator inspect the following at least weekly?		_no
		b .	Construction materials of tanks for corrosion or leaks? Construction materials of and area surrounding discharge confinement structures for erosion or signs of leakage?	$\frac{x}{x}$ yes $\frac{x}{x}$	_no _no
	8.	Is a	written schedule of these inspections kept at the facility?		_nc
	9.	Does	the facility maintain a record of the closure plan on site?	X yes_	no
	10.	Are	ignitable or reactive wastes placed in tanks?	× yes_	_no
		8.	If yes, are they treated, rendered or mixed before or immediafter placement in the tank so it no longer meets the defining ignitable or reactive?	ately tion of yes	<u>/</u> no
			Or		
		b.	Is the waste protected from sources of ignition or reaction?		no

page 2 of 3

- a. If yes, describe washing procedures (Use marrative explanations sheet)

Describe how it is possible for incompatible waste to be placed in the same tank. (Use narrative explanations sheet)

NoTes,

..........

		Are there any surface impoundments which are not being used which the facility does not plan to use in the future?yesno
	•	a. If yes, has all hazardous waste and hazardous waste residue been removed from the impoundment?
	2.	Are impoundments presently used to treat or store waste?yesne
		a. If no, do not complete rest of form. b. If yes, check impoundments.
2 65 .2 22		Does the impoundment appear to maintain at least 2 feet (60 cm) of freeboard?yesno
	4.	Is there evidence of overtopping of the dike?yesno
2 65 .2 23	5.	Does the impoundment have a dontainment system?yesno
•		a. Does the earthen dike have a protective cover (e.g. grass, shale, rock) to minimize wind and water erosion? (Use narrative explanations sheet)
	6.	What wastes are treated in the impoundment? (Use narrative explanations sheet)
265.2 25	7.	Are waste analyses and trial tests conducted on these wastes?yesno
		a. If not, does the owner/operator have written documented information on similar treatment of similar wastes?yesno
•	8.	Is this information retained in the operating record?yesno
	9.	Is the impoundment inspected daily to check freeboard level?yesno
	10.	Is the impoundment, dikes and vegetation surrounding the dike inspected weekly to detect leaks, deterioration or failures?yesno

11'.	Does the facility maintain a record of the closure plan on site? (Effective May 19, 1981)	yesno
12.	Are ignitable or reactive wastes placed in the impoundment?	?yesn
	 a. If no, do not complete b and c. b. If yes, are they treated, rendered or mixed before or immediately after placement in the impoundment so it no longer meets the definition of ignitable or re 	
	or	yesno
•	c. Is the impoundment used solely for emergencies?	yesno
13.	Are incompatible wastes placed in the impoundment?	yesno

W	NOT	E: Waste piles may also be managed as a landfill.
265.251	1.	Is the pile containing hazardous waste protected from wind?yesno
265 .2 52	2.	Is a representative sample of waste from each incoming shipment analyzed before the waste is added to the pile to determine the compatibility of the wastes?
	3.	Does the analysis include a visual comparison of color and texture?
265.253	4.	Is the leachate or run-off from the pile considered a hazardous waste? (Effective November 19, 1981)
		a. If yes, is the pile managed with the following?
		(1) An impermeable base compatible with the waste?yesno (2) Run on diversion?yesno (3) Leachate and run-off collection?yesno
		or
		b. 1. Is the pile protected from precipitation and run-on by some other means?vesno
265.256	5.	Are ignitable or reactive wastes placed in the pile?
		a. If yes, does the addition of the waste result in the waste or mixture no longer meeting the definition?yesno (Use narrative explanation sheet to describe procedure)
		or \
		b. Is the waste protected from sources of ignition or reaction?yesno
•		. (1) If yes, use narrative explanations sheet to describe separation and confinement procedures.
		(2) If no, use narrative explanations sheet to describe sources of ignition or reaction.
	6.	Is the pile separated from other sources of reaction by a dike, berm or wall?
	7.	Is there evidence of fire, explosion, gaseous emissions, leaching or other discharge? (Use narrative explanation sheet)

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265.272	1.	Is run-on diverted away from the lan (Effective May 19, 1981)	id treatment facilityyesno	
	2.	Is run-off from the land treatment f (Effective May 19, 1981)	facility collected?yesno	
	3.	Is the runoff analyzed to see if it	is a hazardous waste?yesno	
•		a. If the run-off is considered haz (Use narrative explanations shee	rardous, how is it handled?	
•		b. If it is not a hazardous waste, source to surface waters?	is it_discharged through a pointyesno	
		(1) If yes, list NPDES Permit N	ło	
	4.	What hazardous wastes are treated at	t the land treatment facility?	
•		Subpart D Listed Wastes	Characteristic Wastes (EP Toxicity)	
2 65 . 2 73		of those constituents which caus	nalyses done to determine the concentrations sed the waste to be listed? centrations? (Use narrative explanation shee	ŧ)
			(EP) Toxicity, what are the concentrations	-,
•		Concentration (Mg/1)	Waste	
	Ban Cac Chi Lea Sei Sei Enc Lii Me To	senic rium dmium romium ad rcury lenium lver drin ndane thoxychlor xaphene 4 D		
	2,	4,5-TP Silvex		

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265.276	5.	Are	food chain crops grown?	yes_	_no
•		a.	vegetation.	il and	
			Soil Vegetation Concentration (mg/l) Concentration (mg/l)		
	Ars	enic			
•	CAc	imi um			
		cury			
	6.	Did	the facility notify the RA that he is growing food chain crops		
			_	yes	no
	7.	Is	the following information kept at the facility?	yes_	_no
		a.	Tests for the specific wastes and application rates being used at the facility?	yes	nc
		Ь.	Crop characteristics?	yes	—no
			Soil characteristics?	yes_	_no
			Sample selection criteria?	yes_	nc
			Sample size determination?	yes	no
			Analytical methods used?	yes yes	_no
		y.			
	8.		s the facility treat waste that contains cadmium?	yes	<u>n</u> c
		a.	If no, do not fill out bac		
		b.	If yes, was the pH of the soil and waste mixture 6.5 or great at the time of each waste application?		no
			(1) If the pH was less than 6.5, did the waste contain cadmoncentrations of 2mg/Kg or less?	ium yes	no
		c.	Is the annual application rate of cadmium less than 0.5 Kg/haper hectare) for the following tobacco, leafy vegetables, or grown for human consumption	(Kilogra root cra yes	ODS
-			(1) For all other food chair crops, is the annual cadmium application rate less than 2.0 Kg/ha (Until 6/30/84)	yes	_no
265.27	8 9.	Is	an unsaturated zone monitoring plan kept at the facility?	yes	_no
			\		

	10.	Does the plan include:		
			ves	no
•		a. Soil monitoring -	yes	no
1050		b. Soil pore water monitoring —	yes	no
		c. Sample depths below waste incorporation -	yes	no
•		d. Number of samples to be taken -	yes	nc
		e. Frequency and time of sampling -	yes	no
		f. Analysis of samples -		O PER
		Abo fooility of		-7
265.279	11.	Are records kept at the facility of		
2000			ves	no
•		a. Application dates -	yes	nc
		b. Application rates -	yes	no
		c. Quantities -	yes	no
		d. Waste location -		_
		Is a copy of the closure/post-closure plan kept at the facility?	yes_	ne
265.280	12.	Is a copy of the closure/posterioral to the cost of th		
		(Effective May 19, 1981)		
		Are ignitable or reactive wastes placed in the facility?	yes_	no
265.281	13.			. 3
		a. If yes, are the wastes treated, rendered or mixed before or i	mmediat	eiy
		a. If yes, are the wastes tredted, rendered or mixed between after placement in the landfill so it is no longer reactive of	or ignit	istos.
			yes_	no
		b. Describe or attach a copy of treatment.		
		a lin Aba Saniiliau?	yes	no
	14.	Are incompatible wastes placed in the facility?		
		a. Are the incompatible waste placed in different locations in	the	
		a. Are the incompatible waste placed in different locality	ves	no
		facility?		
		,		

.302	1.	Is run-on diverted from the landfill? (Effective November 19, 1981)	_yes_	no
	2.	Is run-off from the landfill collected? (Effective November 19, 1981)	yes	no
		a. Is this waste analyzed to determine if it is a hazardous waste?	_yes_	no
		(1) If it is a hazardous waste, how is it managed? (Use narrative explanations sheet)		
		-(2) Is the collected run-off discharged through a point source to surface waters?	_yes	no
		(a) If yes, list NPDES Permit Number		
	3.	Is the landfill managed so that wind dispersal is controlled? (Note blowing debris)	_yes_	_no
æ.	4.	Is the following information maintained in the operating record?	_yes	_no
	5.	Are reactive or ignitable wastes placed in the landfill?	_yes	no
		a. If yes, is it treated, rendered or mixed before or immediately after placement in the landfill so it is no longer reactive or ignitable?	_yes	_no
		b. Describe treatment, etc, or attach a copy of treatment.		
Ć.	6.	Are incompatible wastes placed in the same landfill?	_yes	_no
	7,.	Are bulk or non-containerized liquid wastes or wastes containing free liquids placed in the landfill? (Effective November 19, 1981)	50	
		a. If yes, does the landfill have (1) A chemically and physically resistant liner? (2) Functioning leachate collection and removal system? or	_yes _yes _yes	_no _no _no
		b. 1. Is the liquid waste treated chemically or physically so that free liquids are no longer present? (Effective November 19, 1981)	_yes	_no
		\		

2 65. 3 14	٥.	Are containers notging liquid wastes placed in the landfill?	yes	_no
		a. If yes, is the container designed to hold liquids for a use other than storage? (eg battery, capacitor) (Effective November 19, 1981)	yes	_no
2 65.315	9.	Are empty containers placed in the landfill?	yes_	_no
•	•	a. If yes, are they reduced in volume (eg shredded, crushed)? (Effective November 19, 1981)	yes	_no
	10.	Is there evidence of site instability? (e.g. erosion, settling)? (Use narrative explanations sheet)	yes	_no
28	11.	Is there evidence of ponding of water on-site? (Use narrative explanation sheet)	y e s	no
	12.	Is there any indication of improper or inadequate drainage? (Use narrative explanations sheet)	yes	_nc
265.3 10	13.	Does the facility maintain closure and post-closure plans?	yes	_no

. 2 65.343	1.	Is the incinerator operating at steady/state conditions (temperature and air flow) before adding hazardous waste?yesno
265.345	2.	Is a waste analysis documented on the operating record that includes:
		a. Heating value b. Halogen content c. Sulfur content d. Concentration of lead e. Concentration of mercury yes no yes no yes no yes no
		(Note: D&E not required if facility has written documented data that show the elements are not present.
2 65 .3 47	3.	Does the owner/operator monitor the following when incinerating hazardous waste?
		a. At least every 15 minutes, existing instruments which relate to combustion and emission control including:
		(1) Waste feed yes no (2) Auxiliary fuel feed yes no (3) Air flow yes no (4) Incinerator temperature yes no (5) Scrubber flow yes no (6) Scrubber pH yes no (7) Relevant level controls yes no
		b. Stack plume (emissions) at least hourly for:
		(1) Color (normal)yesnoyesno
		c. Incinerator and associated equipment at least daily including:
		(1) Pumps, valves, conveyors, pipes for leaks, spills, and fugitive emissions (Use narrative explanations sheet) yes no (2) Emergency shutdown controls yes no (3) System alarms
265.351	4.	Is a closure plan maintained at the facility? yesno (Effective May 19, 1981)

2 65 .3 73	1. Is the process a non-continuous (batch) process?	yesn	D
	a. If no, is the process operating at steady state conditions (including temperature) before adding hazardous waste?	yesn	0
2 65.375	b. Is a waste analysis documented in the operating record that includes	i iga	
•	1. Heating value 2. Halogen content 3. Sulfur content 4. Concentration of lead 5. Concentration of mercury	yes ni yes ni yes ni yes ni yes ni yes ni	0
	NOTE: 4&5 not required if facility has written documented data that elements are not present)	show the	
265.3 77	2. Does the owner/operator monitor the following when thermally trea hazardous wastes?	ting yesn)
•	a. At least every 15 minutes, existing instruments which relate to temperature and emission control:		
	1. Waste feed 2. Auxiliary fuel feed 3. Treatment process temperature 4. Relevant process flow 5. Relevant level controls	yes no yes no yes no yes no yes no	0
	b. Stack plume (emissions) at least hourly:		
	 Color (normal) Opacity 	yesno	-
-	c. Thermal treatment process equipment at least daily		
	 Pumps, valves, conveyors, pipes, etc - for leaks, spills and fugitive emissions? Emergency shutdown controls? 	yesno	0

2 65, 3 81	3.	(Effective May 19, 1981)	the facility?	yesno
2 65 .3 82	4.	Is there evidence of any open but (Use narrative explanations sheet	rning of hazardous waste?	yesno
	5.	Is open burning or detonation of	waste explosives conducted?	yesno
		a. If yes, is the detonation per the following table?	rformed in accordance with	yesno
	•	Pounds of waste explosives or propellants	Minimum distance from open or detonation to the proper	burning ty of others
		0-100 101-1,000 1,001-10,000 10,001-30,000	204m(670 ft) 380m(1,250 ft) 530m(1,730 ft) 690m(2,260 ft)	

CHECKLIST

Studge Centrifuge for

NOTE: Applies to treatment in other than tanks, surface impoundments, and land treatment facilities.

265.401	1.	Check treatment process and equipment: a. Are there any leaks, corrosion or other failures evident? ves no.
		If yes, describe. Sudge oit all over the thory and building field
	2.	Is the process a continous feed system?yes X no
		a. If yes, is it equipped with a means to stop waste inflow (e.g. waste feed cut-off system or by-pass)?yesno NA
265.402	3.	Is waste analysis information maintained in the operating record? X yes no
•	4.	If a hazardous waste is received which is substantially different from any hazardous waste previously treated at the facility, are the following obtained?
		a. Waste analyses and trial treatment tests (eg bench scale)? b. Written documented information on similar treatment of similar waste? yesno NA yesno NA
265.4n3	5.	Does the owner/operator inspect the following, where present?yes X no
		 a. At least daily. l. Discharge control and safety equipment (eg waste feed cut-off, by-pass, drainage or pressure relief systems)?
		2. Data gathered from monitoring equipment (eg pressure and temperature gauges)?yesno NA
		 At least weekly. Construction materials of treatment process or equipment to detect erosion or obvious signs of leakage?
	6.	Does the facility maintain a closure plan? lower flow for the met yes \(\times \no \) (Effective May 19, 1981)
265.405	7.	Are ignitable or reactive wastes placed in the treatment process?
		a. If yes, is the waste treated, rendered or mixed before or immediately after being placed in the treatment process so it no longer meets the definition of ignitable or reactive?yesno PK Describe or attach a copy of the treatment.
		page 1 of





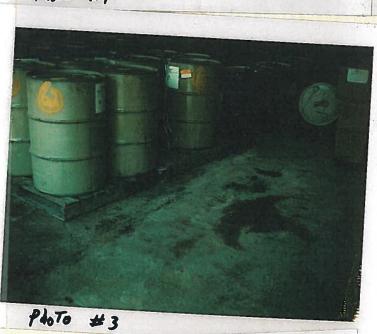








Photo #5

Photo #6



94.50 #7



Photo #8



Photo # 10